

FIG. 3A

MLVNNVLAIAAGGLIMGLAKXAXSFEMLILG Majority

190 200 210

MLVVMVLSIAGNLLMGLAKMGPCHIILIAAG glut1
 MLIVVLLAIAAGGCLMGFCKIAESVEMLILG glut2
 MLVNNVIAVLGGSLMGLANAAASYEMLILG glut3
 LIFNNIFSIIVPAILMGC SRVATSFELIIS glut4
 LILANNNGFAISAAALLMACSLQAGAFEMLIVG GlutX

RFIIGLYCGLSSGVVPMYVGEISPTALRGA Majority

220 230 240

RFIIGVYCGLTTCFVPMYVGEVSPTEELRGA glut1
 RAITGLYCGLSSGLVPMYVSEVSPPTALRGA glut2
 RLIIGLFCCGLCTGFPVPMYIGEISPTALRGA glut3
 RFLIGAYSGLTSGLIVPMYVGEIAPTHHRGA glut4
 RLLVGCAGVSSNVVPMYLGEELAEKRNHRGA glut5
 RFIMGIDGGVALSVLPMYLSFISPKEIEGGS GlutX

LGTLNOLGIVIGILIAQVLGLDSLLGNESL Majority

250 260 270

LGTLHQLGIVVCGILIAQVFIGLDSIMGNQEL glut1
 LGTLHQLAIVTIGILTSQVILGLDFILGNDTEL glut2
 FGTLNQLGIVIGILVVAQIFGLKVIILGTFDL glut3
 LGTLNQLAIVIGILIAQVILGLESLLGTAASL glut4
 LGVVPOLFIFTVGLVVAQIFGLRNULANVDG glut5
 LGQVTAIFICIGVFTGOLLGLPEELLGKEST GlutX

WPLLLGLTGVPALLQQLLPFCPESPRYLL Majority

280 290 300

WPLLLSVIFIPALLQCLIELPFCPESPRFL glut1
 WPLLLGLISGVAAALLQFFILLLCPESPRYLY glut2
 WPLLLGFTILPAIIQCAALPFCPESPRFEL glut3
 WPLLLGLTVLPALLQVLVLLPFCPESPRYLY glut4
 WPIILLGLTGVPAAALQLLLPFFPESPRYLL glut5
 WPYIFFGVIVVPAVVOILLSIPFLPDSPRYLL GlutX

INKNEEARAKKALQRLRGTAADVSQEVAE MK Majority

310 320 330

INRNENRAKSVLKKLRGTADVTRDLQEMK glut1
 IKGKVEEAKKSLKKLRGNCDPMKEIAEME glut2
 INRKKEEAKAKEILORLWGTEEDVAODIQEMK glut3
 IIONLLEGPAKSLKRLTGWADVSGVLAELK glut4
 IOKKDEAAAKKALQTLRGWDSVDRREVAEIR glut5
 LEKHNEARAVKAFQTFLGKADVSOEVEEV GlutX

DESRXMXSEKXVSVLELFRSRXYRQPVIIA Majority

340 350 360

EESRQMMREKKVТИELFRSAAAYRQPIITA glut1
 KEKQEAASEKRVSIGQLFSSSKYRQAVIVA glut2
 DESMRMSQEKQVTVLELFRAAPNYRQPIIIIS glut3
 DEKRKLERERPLSLLQLLGSRTHROPLITA glut4
 QEDEAEKAAGFISVLUKLFRMRSLRWQLLSI glut5
 AESHVQRSSIRLVSVLELLRAPYVWRWQVVT GlutX

IVLQLSQQLSGINAVFYYSTSIEEKAGVGO Majority

370 380 390

167 VVLQLSQQLSGINAVFYYSTSIEEKAGVQQ glut1-pro
320 LMVQISQQFSGINAIIFYYSTNIFQRAAGVGO glut2-pro
274 IMLQLSQQLSGINAVFYYSTSIEEKDAAGVQE glut3-pro
292 VVLQLSQQLSGINAVFYYSTSIEETAGVGO glut4-pro
282 IVLMGGOQQLSGVMAIYIYADQIYLSAGVPE glut5-pro
321 TVTMACYOLCGLMAIWFWTNTIEFGKACIAPP GlutX-pro-
final-2/6/98

P--VYATIGAGVVNTVFTVVSVFVVVERAGR Majority

400 410 420

197 P--VYATIGSGIVNTAFTVVSLFVVERAGR glut1-pro
350 P--VYATIGVGIVVNTVFTVIVSVFLVEKAGR glut2-pro
304 P--VYATIGAGVVNTIIFTVVSVFLVEKAGR glut3-pro
322 P--AKATIGAGVVNTVFTLIVSVLLVERAGR glut4-pro
312 EHVKQVVTAGTGAIVNVVMTFCAVFVVELLGR glut5-pro
351 AKIPYVTLSTGGIETLAAVFSGLIVIFHLCR GlutX-pro-
final-2/6/98

RTLHLGLGGMAGCAVLMTIALLDQVPW Majority

430 440 450

225 RTLHLIGLAGMAGCAVLMTIALLALLEQLPW glut1-pro
378 RSLFLAGLMGMLISAVAMTVGLVLLSQFAW glut2-pro
332 RTLHLIGLGGMAFCISIIMTISLLIKDNYSW glut3-pro
350 RTLHLGLAGMCIGCAILMTVALLLEERVPA glut4-pro
342 RLLLIGLFSICLIAACCVLTAALALQDTTVSIW glut5-pro
381 RPLLIIGGFGLMGLFFGTLTTITQDHAPW GlutX-pro-
final-2/6/98

MSYVSIVAIIFGFVAFFEVGPGPPIPWFIVAE Majority

460 470 480

255 MSYLSIVAIIFGFVAFFEVGPGPPIPWFIVAE glut1-pro
408 MSYVSMVAIFLFVIFIIFFEVGPGPPIPWFIVAE glut2-pro
362 MSFICIGAIILVFVAFFEIGGPPIPWFIVAE glut3-pro
380 MSYVSIVAIIFGFVAFFEIIGGPPIPWFIVAE glut4-pro
372 MPYISIVCVVISYVIGHALGPSPIPALLITE glut5-pro
411 VPYLSIVGTLAIIASFCSGPGGTIPFILTGE GlutX-pro-
final-2/6/98

LFSGQPRPAAIAVAGFSNWTSNFIVGLLFO Majority

490 500 510

285 LFSQGPRPAAIAVAGFSNWTSNFIVGGMCFQ glut1-pro
438 LFSQGPRPAAIAVAGFCNWACNFTVGMCFQ glut2-pro
392 LFGQGPRPAAAMAVAGCSNWTSNFLVGLLFP glut3-pro
410 LFSQGPRPAAAMAVAGFSNWTSNFIIGMCFQ glut4-pro
402 IFLOSSRPSAFMVGGSVHWLSNFTVGLIFP glut5-pro
441 FFOQSQRPAAFIIAGTVNWLSNFAAVGLLFP GlutX-pro-
final-2/6/98

YIAELLGPYVFIIVFAVLLLFFIFTFLKVP Majority

520 530 540

315 YVEQLCCGPYVFIIFTVLLVLFIFTYFKVP glut1-pro
468 YIADIICGPyVFFVVFAVVLLLVFFLFAYIKVP glut2-pro
422 SATFYLGAYVFTIVFTVFLVIFWVFTFFKVP glut3-pro
440 YVAEAAMGPyVFLLFPAVLLLGFFIFTFLRVP glut4-pro
432 FIQEGLGPYSFIVFAVIVICLTTIYIFLIVP glut5-pro
471 FIQKSIDTYCFLVFAATICITGATYLYFVLP GlutX-pro-
final-2/6/98